

Title (en)
Plug and electronic device with the plug

Title (de)
Steckverbinder und damit ausgestattete elektronische Vorrichtung

Title (fr)
Prise et dispositif électronique avec la prise

Publication
EP 2383845 A1 20111102 (EN)

Application
EP 11164307 A 20110429

Priority
CN 201010168720 A 20100429

Abstract (en)
The present invention relates to electronic technologies, and in particular, to a plug (3) and an electronic device with the plug. The present invention solves the following problem: In the conventional art, an electronic device with a plug occupies too large space in the direction vertical to the surface of an external device when the electronic device is inserted in a slot (41) of the external device. A plug of the present invention takes on the following features: when a head end (30) of the plug is inserted in a slot of an external device, the plug is electrically connected to the slot; a back end of the plug is electrically connected to a main circuit board (2) of an electronic device equipped with the plug; a sliding structure (5) is set on the plug and integrated with the electronic device equipped with the plug; and the plug can slide relative to a shell (1) of the electronic device through the sliding structure, and a head end of the plug can slide out of an edge of the shell in a direction that intersects a maximum extension direction of the shell through the sliding structure. The electronic device with the plug includes the shell, the main circuit board located in the shell, and the plug disclosed herein. The present invention is applicable to an electronic device with a plug.

IPC 8 full level
G06K 19/07 (2006.01); **H01R 12/72** (2011.01); **H01R 13/453** (2006.01); **H01R 13/66** (2006.01); **H01R 24/60** (2011.01); **H05K 5/02** (2006.01)

CPC (source: EP US)
H01R 13/4538 (2013.01 - EP US); **H01R 13/6658** (2013.01 - EP US); **H01R 27/00** (2013.01 - EP US); **H01R 2201/06** (2013.01 - EP US)

Citation (search report)
• [A] US 7422454 B1 20080909 - TANG CHOON TAK [US], et al
• [A] US 2009089496 A1 20090402 - HUANG HONG-EN [TW]
• [A] US 7001192 B1 20060221 - YEH MING-HSIANG [TW]
• [A] US 2006073717 A1 20060406 - NG CHONG-KHAI [TW], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2383845 A1 20111102; CN 101859940 A 20101013; CN 101859940 B 20121017; JP 2011233526 A 20111117; JP 5186581 B2 20130417; US 2011269335 A1 20111103; US 8684753 B2 20140401; WO 2011134417 A1 20111103

DOCDB simple family (application)
EP 11164307 A 20110429; CN 201010168720 A 20100429; CN 2011073482 W 20110428; JP 2011103013 A 20110502; US 201113098035 A 20110429